## **Abstract**

5

10

15

20

A claw-pole rotor for an electrical machine, in particular a rotary current generator, having two pole wheels (26, 27), which each carry claw poles (28 and 29, respectively), which each originate in a plate region (50) and have a pole root (53), and on a circumference of the claw-pole rotor (20), claw poles (28, 29) of the pole wheels (26, 27) are located in alternation, and located between the claw poles or interstices (90), and a claw pole (28, 29) has a radially outward-oriented cylindrical-jacketlike surface (43), by which a pivot axis (65) is defined, and a chamfer (68) extends on the one hand in a circumferential direction and on the other in an edge direction of a claw pole (28 and 29, respectively), wherein the chamfer (68) has a center portion m in the edge direction that intersects a transition plane (59) which demarcates the pole root (53) and the freely projecting part of the claw pole (28 and 29, respectively), and the center portion m amounts to 8/10 of the length, oriented in the edge direction, of the chamfer (68); and that the claw pole (28, 29) has a width B<sub>k</sub>, oriented in the circumferential direction, and a half width  $B_{\kappa}$  on the cylindrical surface (43), in a plane of the claw pole (28, 29) that is vertical to the pivot axis (65), defines a point (P), and a tangent (T) can be inscribed into this point (P), and an angle of inclination a which has a magnitude of between 15° and 25° is enclosed between the tangent (T) and the chamfer (68) in the plane that is vertical to the pivot axis (65).

(Fig. 3)